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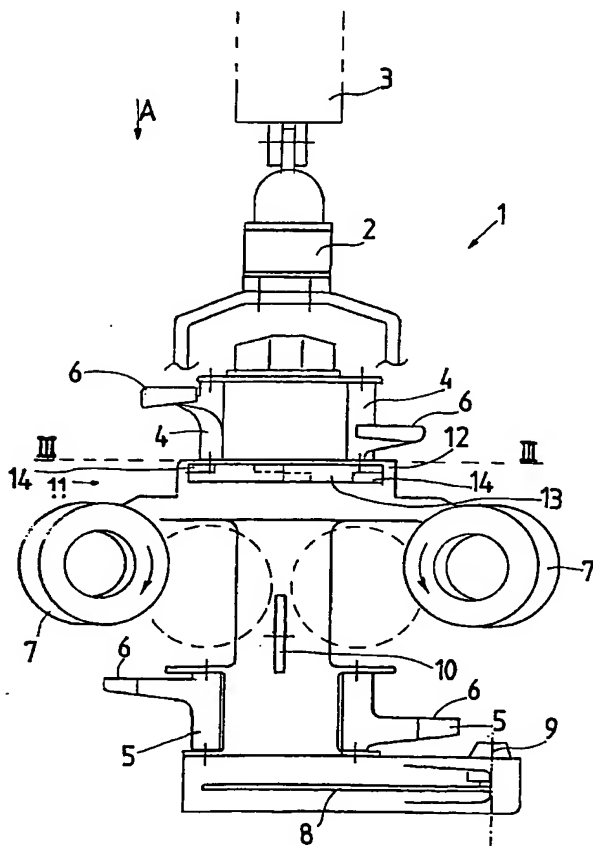
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(54) Title: A HARVESTER FOR A FORESTRY MACHINE



(57) Abstract: A harvester (1) for a forestry machine comprises grapples (4, 5), a cutting device (8), trimming devices (6) and advancement means (7) for grasping, cutting, trimming and advancement in the axial direction, respectively, of a tree stem. Further, the harvester (1) includes a measurement device (10) for measuring the length of the tree stem and a measurement device (11) for measuring how the transverse dimension of the tree stem varies along its length. The measurement device (11) includes movable measurement means (14) for contact-free detection of the outer contour of the tree stem, from which the diameter is calculable. The measurement device (11) is located between the trimming device (6) and the advancement means (7) for counteracting dirtying of the measurement device (11). A method of measuring the transverse dimension of a tree stem is disclosed in which the tree stem is moved axially past a measurement device (11) in a harvester (1). The method comprises the steps that a pair of measurement means (14) are moved towards the tree stem, that pairs of read-off values are registered on detection of the outer contour of the tree stem and that the transverse dimension of the tree stem is calculated from each pair of read-off values. After detection of the outer contour, the measurement means (14) are moved a distance away from the tree stem in order thereafter to be once again moved towards the tree stem for a renewed detection of the outer contour. A read-off value which exceeds the previous read-off value is replaced by the previous read-off value before a renewed calculation of the transverse dimension.

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